



## ABSTRACT OF THE DISCLOSURE

A circuit board has embedded optical fibers terminating in fiber ends which face into holes defined in the circuit board and optoelectronic emitter or detector modules mounted in the holes in optical coupling with the fiber ends. Each module is electrically connected to circuit traces on the circuit board and is optically coupled to one or more optical fibers terminating on a side surface of the hole. The modules have an optical axis oriented into the hole and a reflector supported in the hole for optically coupling the photo emitter/detector module with the fiber ends on the side surface of the hole.